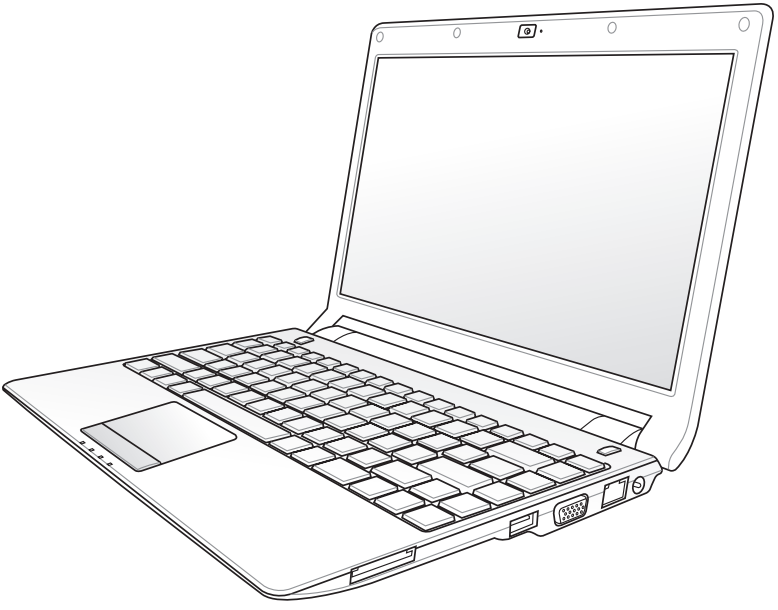
E4857

Notebook PC User Manual



August 2009

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Table of Contents

Safety Precautions 3
Preparing your Notebook PC 5
Using the Touchpad 7
Knowing the Parts 8
- Right Side 8
- Left Side 10
- Rear Side 12
- Front Side 13

Recovering Your Notebook PC 14
- Using Recovery Partition 14
- Using Recovery DVD (on selected models) 15

Declarations and Safety Statements 17
- Federal Communications Commission Statement 17
- FCC Radio Frequency (RF) Exposure Caution Statement 18
- Declaration of Conformity(R&TTE directive 1999/5/EC) 18
- CE Mark Warning 19
- IC Radiation Exposure Statement for Canada 19
- Wireless Operation Channel for Different Domains 20
- France Restricted Wireless Frequency Bands 20
- UL Safety Notices 22
- Power Safety Requirement 23
- REACH 23
- Nordic Lithium Cautions (for lithium-ion batteries) 24
- European Union Eco-label 25
- Takeback and Recycling 25

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Safety Precautions

The following safety precautions will increase the life of the Notebook PC. Follow all precautions and instructions. Except as described in this manual, refer all servicing to qualified personnel.

Disconnect the AC power and remove the battery pack(s) before cleaning. Wipe the Notebook PC using a clean cellulose sponge or chamois cloth dampened with a solution of nonabrasive detergent and a few drops of warm water and remove any extra moisture with a dry cloth.

DO NOT place on uneven or unstable work surfaces. Seek servicing if the casing has been damaged.

DO NOT place or drop objects on top and do not shove any foreign objects into the Notebook PC.

DO NOT expose to dirty or dusty environments. DO NOT operate during a gas leak.

DO NOT expose to strong magnetic or electrical fields.

DO NOT press or touch the display panel. Do not place together with small items that may scratch or enter the Notebook PC.

DO NOT expose to or use near liquids, rain, or moisture. DO NOT use the modem during electrical storms.

DO NOT leave the Notebook PC on your lap or any part of the body to prevent discomfort or injury from heat exposure.

Battery safety warning: DO NOT throw the battery in fire. DO NOT short circuit the contacts. DO NOT disassemble the battery.

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SAFE TEMP: This Notebook PC should only be used in environments with ambient temperatures between 10°C (50°F) and 35°C (95°F)

INPUT RATING: Refer to the rating label on the bottom of the Notebook PC and be sure that your power adapter complies with the rating.

DO NOT carry or cover a Notebook PC that is powered ON with any materials that will reduce air circulation such as a carrying bag.

DO NOT use strong solvents such as thinners, benzene, or other chemicals on or near the surface.

DO NOT use damaged power cords, accessories, or other peripherals.

Incorrect installation of battery may cause explosion and damage the Notebook PC.

DO NOT throw the Notebook PC in municipal waste. This product has been designed to enable proper reuse of parts and recycling. The symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment and mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

DO NOT throw the battery in municipal waste. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

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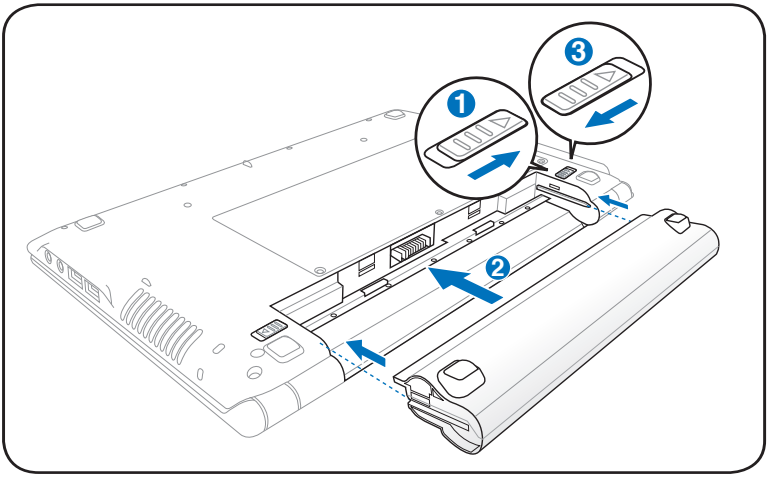
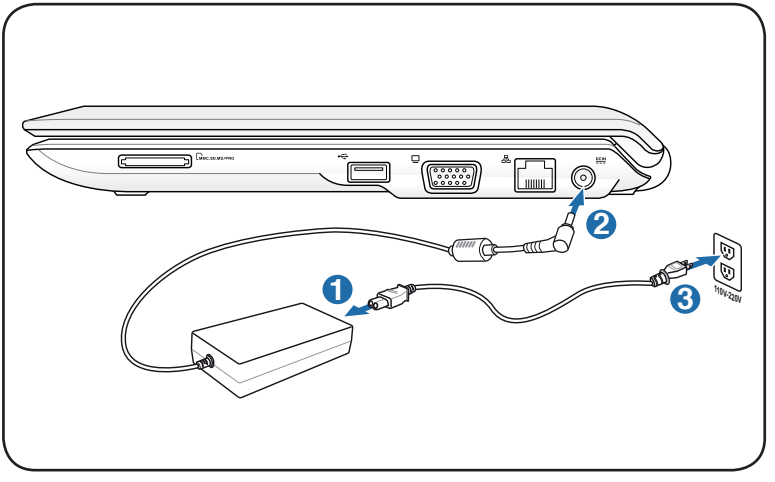
Preparing your Notebook PC

These are only quick instructions for using your Notebook PC.

Installing the Battery Pack



Connecting the Power Adapter



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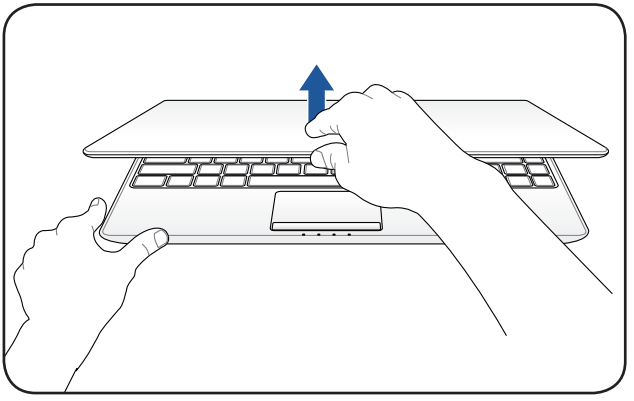
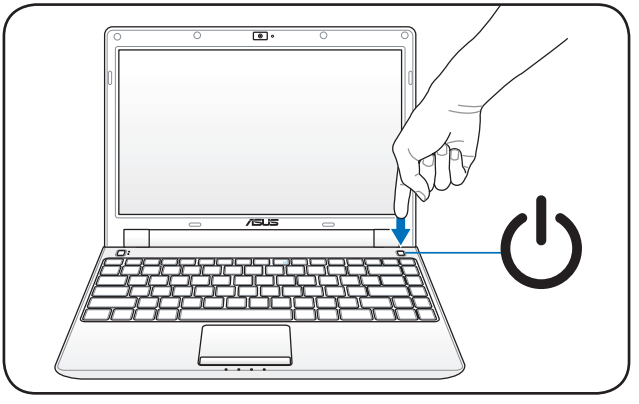
Opening the LCD display panel

1. Carefully lift up the display panel with your thumb.
2. Slowly tilt the display panel forward or backward to a comfortable viewing angle.



Turning on the Power

1. Push and release the power button located beneath the LCD display panel.
2. Use [Fn]+[F5] or [Fn]+[F6] to adjust the LCD brightness.



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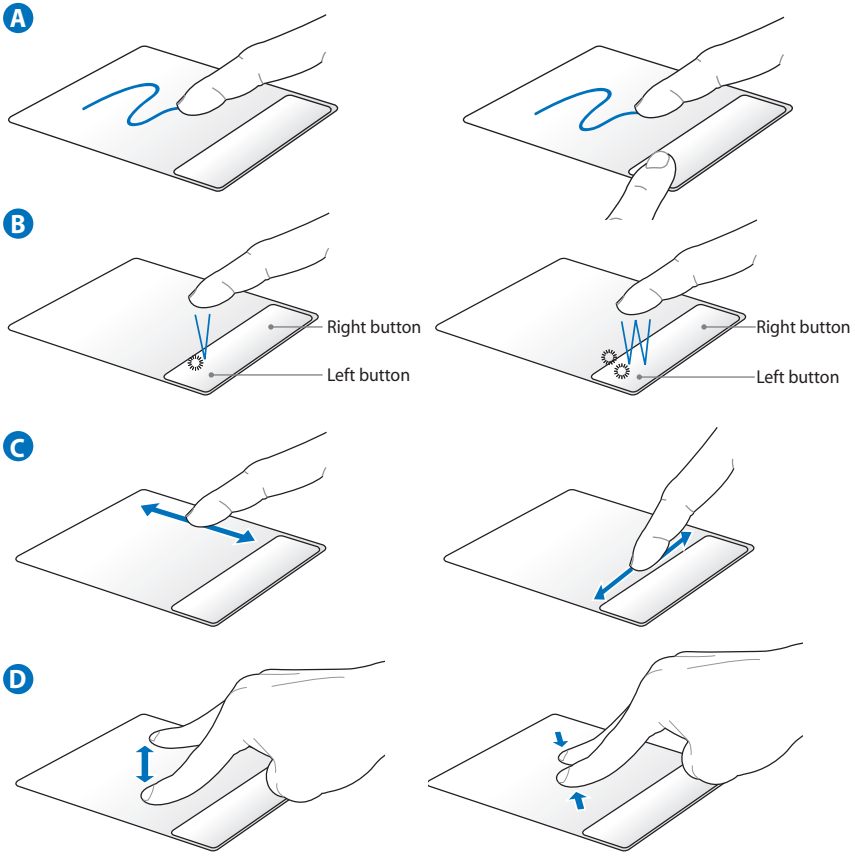
Using the Touchpad



Customize the touchpad's behavior in **Windows Control Panel > Mouse Properties > Synaptics > Options....**

A. Slide your finger across the touchpad to move the pointer. You can also hold the left button and slide your finger to drag the selected item.

B. Use the left and right buttons like a standard mouse.

C. Slide your finger up or down on the right side to scroll up or down a window and left or right on the bottom side to scroll left or right a window.

D. Moving two fingertips apart or together on the touchpad to zoom in or zoom out.

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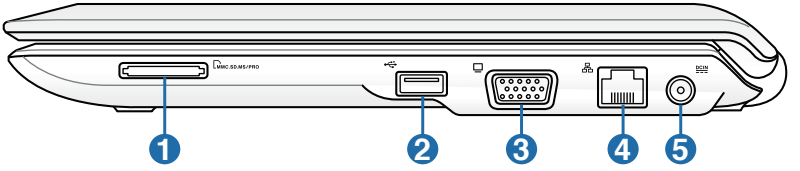
Knowing the Parts

Right Side



1 Flash Memory Slot

Normally an external memory card reader must be purchased separately in order to use memory cards from devices such as digital cameras, MP3 players, mobile phones, and PDAs. This Notebook PC has a built-in high-speed memory card reader that can conveniently read from and write to many flash memory cards.

2 USB Port (2.0/1.1)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbits/sec (USB 1.1) and 480Mbits/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. USB supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer.

3 Display (Monitor) Output

The 15-pin D-sub monitor port supports a standard VGA-compatible device such as a monitor or projector to allow viewing on a larger external display.

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4 LAN Port

The RJ-45 LAN port with eight pins is larger than the RJ-11 modem port and supports a standard Ethernet cable for connection to a local network. The built-in connector allows convenient use without additional adapters.

5 Power (DC) Input

The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the Notebook PC and charges the internal battery pack. To prevent damage to the Notebook PC and battery pack, always use the supplied power adapter.

The adapter may become warm to hot when in use. Ensure not to cover the adapter and keep it away from your body.

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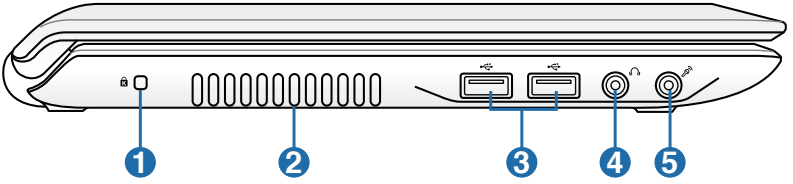
Left Side



1 Security Port

The security port allows the Notebook PC to be secured to a fixed object with a 2 mm metal cable.

2 Air Vents

The air vents allow cool air to enter and warm air to exit the Notebook PC.

Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

3 USB Port (2.0/1.1)

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbits/sec (USB 1.1) and 480Mbits/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs. USB supports hot-swapping of devices so that most peripherals can be connected or disconnected without restarting the computer.

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4 Headphone Output Jack

The stereo headphone jack (1/8 inch) is used to connect the Notebook PC's audio out signal to amplified speakers or headphones. Using this jack automatically disables the built-in speakers.

5 Microphone Input Jack

The mono microphone jack (1/8 inch) can be used to connect an external microphone or output signals from audio devices. Using this jack automatically disables the built-in microphone. Use this feature for video conferencing, voice narrations, or simple audio recordings.

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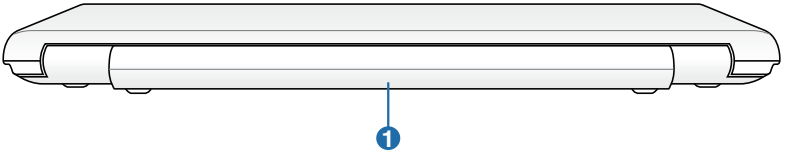
Rear Side



1 **Battery Pack**

The battery pack is automatically charged when the Notebook PC is connected to an AC power source and maintains power to the Notebook PC when AC power is not connected. This allows use when moving temporarily between locations. Battery time varies by usage and by the specifications for this Notebook PC. The battery pack cannot be disassembled and must be purchased as a single unit.

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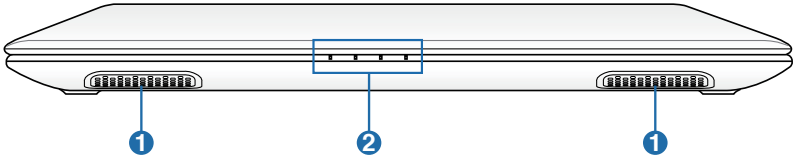
Front Side



1 Audio Speaker

The built-in stereo speaker system allows you to hear audio without additional attachments. The multimedia sound system features an integrated digital audio controller that produces rich, vibrant sound (results improved with external stereo headphones or speakers). Audio features are software controlled.

2 Status Indicators (front)

Status indicators represent various hardware/software conditions.

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Recovering Your Notebook PC

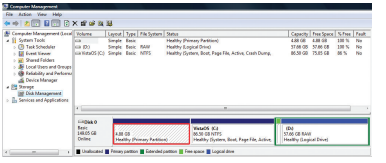
Using Recovery Partition

The Recovery Partition quickly restores your Notebook PC's software to its original working state. Before using the Recovery Partition, copy your data files (such as Outlook PST files) to floppy disks or to a network drive and make note of any customized configuration settings (such as network settings).

About the Recovery Partition

The Recovery Partition is a reserved space on your hard disk drive used to restore the operating system, drivers, and utilities installed on your Notebook PC at the factory.

IMPORTANT! DO NOT delete the partition named **RECOVERY**. The Recovery Partition is created at the factory and cannot be restored if deleted. Take your Notebook PC to an authorized ASUS service center if you have problems with the recovery process.



Using the Recovery Partition:

1. Press [F9] during bootup.
2. Press [Enter] to select Windows Setup [EMS Enabled].
3. Read the **ASUS Preload Wizard** screen and click **Next**.
4. Select a partition option and click **Next**. Partition options:

   Recover Windows to first partition only.

   This option deletes only the first partition and allows you to keep other partitions, and to create a new system partition as drive "C".

   Recover Windows to entire HD.

   This option deletes all partitions from your hard disk drive and creates a new system partition as drive "C".

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Recover Windows to entire HD with 2 partition.

This option deletes all partitions from your hard drive and creates two new partitions "C" (60%) and "D" (40%).

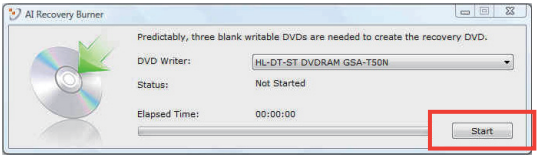
5. Follow the onscreen instructions to complete the recovery process.

Visit the ASUS website at www.asus.com for updated drivers and utilities.

Using Recovery DVD (on selected models)

Creating the Recovery DVD:

1. Double-click the **AI Recovery Burner** icon on the Window desktop.
2. Insert a blank writable DVD into the optical drive and click **Start** to start creating the Recovery DVD.



3. Follow the onscreen instructions to complete creating the recovery DVD.

Prepare three blank writable DVDs to create the Recovery DVD.

IMPORTANT! Remove the external hard disk drive before performing system recovery on your Notebook PC. According to Microsoft, you may lose important data because of setting up Windows Vista on the wrong disk drive or formatting the incorrect drive partition. Refer to http://support.microsoft.com/kb/937251/en-us for more details.

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Using the Recovery DVD:

1. Insert the Recovery DVD into the optical drive. Your Notebook PC needs to be powered ON.
2. Restart the Notebook PC and press [Esc] on bootup and select the optical drive (may be labeled as "CD/DVD") and press [Enter] to boot from the Recovery DVD.
3. Select a partition option and click **Next**. Partition options:

   Recover Windows to first partition only.

   This option deletes only the first partition and allows you to keep other partitions, and to create a new system partition as drive "C".

   Recover Windows to entire HD.

   This option deletes all partitions from your hard disk drive and creates a new system partition as drive "C".

   Recover Windows to entire HD with 2 partition.

   This option deletes all partitions from your hard drive and creates two new partitions "C" (60%) and "D" (40%).
4. Follow the onscreen instructions to complete the recovery process.

WARNING: Do not remove the Recovery disc, unless instructed to do so, during the recovery process or else your partitions will be unusable.

Visit the ASUS website at www.asus.com for updated drivers and utilities.

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Declarations and Safety Statements

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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(Reprinted from the Code of Federal Regulations #47, part 15.193, 1993. Washington DC: Office of the Federal Register, National Archives and Records Administration, U.S. Government Printing Office.)

FCC Radio Frequency (RF) Exposure Caution Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. "The manufacture declares that this device is limited to Channels 1 through 11 in the 2.4GHz frequency by specified firmware controlled in the USA."

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Declaration of Conformity (R&TTE directive 1999/5/EC)

The following items were completed and are considered relevant and sufficient:

- Essential requirements as in [Article 3]
- Protection requirements for health and safety as in [Article 3.1a]
- Testing for electric safety according to [EN 60950]
- Protection requirements for electromagnetic compatibility in [Article 3.1b]
- Testing for electromagnetic compatibility in [EN 301 489-1] & [EN 301]
- Testing according to [489-17]
- Effective use of the radio spectrum as in [Article 3.2]
- Radio test suites according to [EN 300 328-2]

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CE Mark Warning

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

IC Radiation Exposure Statement for Canada

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with IC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

Operation is subject to the following two conditions:

- This device may not cause interference and
- This device must accept any interference, including interference that may cause undesired operation of the device.

To prevent radio interference to the licensed service (i.e. co-channel Mobile Satellite systems) this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

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Wireless Operation Channel for Different Domains

N. America	2.412-2.462 GHz	Ch01 through CH11
Japan	2.412-2.484 GHz	Ch01 through Ch14
Europe ETSI	2.412-2.472 GHz	Ch01 through Ch13

France Restricted Wireless Frequency Bands

Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are:

- 10mW for the entire 2.4 GHz band (2400 MHz–2483.5 MHz)
- 100mW for frequencies between 2446.5 MHz and 2483.5 MHz

Channels 10 through 13 inclusive operate in the band 2446.6 MHz to 2483.5 MHz.

There are few possibilities for outdoor use: On private property or on the private property of public persons, use is subject to a preliminary authorization procedure by the Ministry of Defense, with maximum authorized power of 100mW in the 2446.5–2483.5 MHz band. Use outdoors on public property is not permitted.

In the departments listed below, for the entire 2.4 GHz band:

- Maximum authorized power indoors is 100mW
- Maximum authorized power outdoors is 10mW

Departments in which the use of the 2400–2483.5 MHz band is permitted with an EIRP of less than 100mW indoors and less than 10mW outdoors:

01 Ain	02 Aisne	03 Allier
05 Hautes Alpes	08 Ardennes	09 Ariège
11 Aude	12 Aveyron	16 Charente
24 Dordogne	25 Doubs	26 Drôme
32 Gers	36 Indre	37 Indre et Loire
41 Loir et Cher	45 Loiret	50 Manche
55 Meuse	58 Nièvre	59 Nord

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60 Oise	61 Orne
63 Puy du Dôme	64 Pyrénées Atlantique
66 Pyrénées Orientales	67 Bas Rhin
68 Haut Rhin	70 Haute Saône
71 Saône et Loire	75 Paris
82 Tarn et Garonne	84 Vaucluse
88 Vosges	89 Yonne
90 Territoire de Belfort	94 Val de Marne

This requirement is likely to change over time, allowing you to use your wireless LAN card in more areas within France. Please check with ART for the latest information (www.art-telecom.fr)

Your WLAN Card transmits less than 100mW, but more than 10mW.

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UL Safety Notices

Required for UL 1459 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 200V peak, 300V peak-to-peak, and 105V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

When using the Notebook PC modem, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- DO NOT use the Notebook PC near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- DO NOT use the Notebook PC during an electrical storm. There may be a remote risk of electric shock from lightning.
- DO NOT use the Notebook PC in the vicinity of a gas leak.

Required for UL 1642 covering primary (nonrechargeable) and secondary (rechargeable) lithium batteries for use as power sources in products. These batteries contain metallic lithium, or a lithium alloy, or a lithium ion, and may consist of a single electrochemical cell or two or more cells connected in series, parallel, or both, that convert chemical energy into electrical energy by an irreversible or reversible chemical reaction.

- Do not dispose the Notebook PC battery pack in a fire, as they may explode. Check with local codes for possible special disposal instructions to reduce the risk of injury to persons due to fire or explosion.
- Do not use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.

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Power Safety Requirement

Products with electrical current ratings up to 6A and weighing more than 3Kg must use approved power cords greater than or equal to: H05VV-F, 3G, 0.75mm^2 or H05VV-F, 2G, 0.75mm^2.

REACH

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at http://green.asus.com/english/REACH.htm.

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Nordic Lithium Cautions (for lithium-ion batteries)

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. (English)

ATTENZIONE! Rischio di esplosione della batteria se sostituita in modo errato. Sostituire la batteria con un una di tipo uguale o equivalente consigliata dalla fabbrica. Non disperdere le batterie nell'ambiente. (Italian)

VORSICHT! Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers. (German)

ADVARSELI! Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren. (Danish)

VARNING! Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion. (Swedish)

VAROITUS! Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan sousittelemaan tyyppiin. Hävitä käytetty paristo valmistagan ohjeiden mukaisesti. (Finnish)

ATTENTION! Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du mêre type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant. (French)

ADVARSEL! Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner. (Norwegian)

標準品以外の使用は、危険の元になります。交換品を使用する場合、製造者に指定されるものを使って下さい。製造者の指示に従って処理して下さい。(Japanese)

ВНИМАНИЕ! При замене аккумулятора на аккумулятор иного типа возможно его возгорание. Утилизируйте аккумулятор в соответствии с инструкциями производителя. (Russian)

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European Union Eco-label

This Notebook PC has been awarded the EU Flower label, which means that this product has the following characteristics:

1. Decreased energy consumption during use and stand-by modes.
2. Limited use of toxic heavy metals.
3. Limited use of substances harmful to the environment and health.
4. Reduction of the use of natural resources by encouraging recycling.
5. Extended product lifetime through easy upgrades and longer-time availability of spare parts.
6. Reduced solid waste through takeback policy.

For more information on the EU Flower label, please visit the European Union Eco-label website at http://europa.eu.int/ecolabel.

Takeback and Recycling

Old computers, notebook computers, and other electronic equipment contain hazardous chemicals that are harmful to the environment when disposed in a landfill with trash. By recycling, the metals, plastics, and components found in an old computer will be broken down and reused to make new products. And, the environment is protected from any uncontrolled release of harmful chemicals.

ASUS works with recycling vendors with the highest standards for protecting our environment, ensuring worker safety, and complying with global environmental laws. Our commitment to recycling our old equipment grows out of our work to protect the environment in many ways.

For further information about ASUS product recycling and contacts, please visit GreenASUS Takeback and Recycling page at http://green.asus.com/english/takeback.htm.

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7,416,423; 7,415,588; 7,413,402; 7,411,791; 7,408,855; 7,403,378; 7,400,721; 7,399,011; 7,394,533; 7,392,968; 7,388,754; 7,388,752; 7,388,743; 7,382,605; 7,382,314; 7,375,952; 7,374,433; 7,373,493; 7,369,402; 7,369,064; 7,362,568; 7,362,521; 7,362,276; 7,361,034; 7,359,209; 7,359,189; 7,355,372; 7,353,408; 7,352,586; 7,343,645; 7,342,777; 7,342,193; 7,332,990; 7,328,354; 7,327,568; 7,325,241; 7,321,523; 7,319,585; 7,304,257; 7,299,479; 7,294,021; 7,294,011; 7,293,890; 7,293,273; 7,276,660; 7,267,566; 7,261,579; 7,261,573; 7,261,331; 7,259,342; 7,257,761; 7,245,488; 7,241,946; 7,234,971; 7,233,555; 7,229,000; 7,224,657; 7,223,021; 7,218,587; 7,218,096; 7,213,250; 7,203,856; 7,193,580; 7,189,937; 7,187,537; 7,185,297; 7,184,278; 7,164,089; 7,161,541; 7,149,911; 7,148,418; 7,137,837; 7,133,279; 7,130,994; 7,125,282; 7,120,018; 7,111,953; 7,103,765; 7,100,087; 7,091,735; 7,088,592; 7,088,119; 7,086,887; 7,085,130; 7,078,882; 7,068,636; 7,066,751; 7,061,773; 7,047,598; 7,047,541; 7,043,741; 7,039,415; 7,035,946; 7,002,804; 6,980,159; 6,969,266; 6,946,861; 6,938,264; 6,933,927; 6,922,382; 6,873,064; 6,870,513; 6,843,407; 6,842,150; 6,827,589; 6,819,564; 6,817,510; 6,788,944; 6,783,373; 6,782,451; 6,775,208; 6,768,224; 6,760,293; 6,742,693; 6,732,903; 6,728,529; 6,724,352; 6,717,802; 6,717,074; 6,711,016; 6,694,442; 6,693,865; 6,687,248; 6,671,241; 6,657,548; 6,639,806; 6,622,571; 6,618,813; 6,612,850; 6,600,708; 6,561,852; 6,515,663; 6,509,754; 6,500,024; 6,491,359; 6,456,580; 6,456,492; 6,449,224; 6,449,144; 6,430,060; 6,415,389; 6,412,036; 6,407,930; 6,396,419; 6,396,409; 6,377,033; 6,339,340; 6,330,996; 6,310,779; 6,305,596; 6,301,778; 6,253,284; 6,226,741; 6,147,467; 6,095,409; 6,094,367; 6,085,331; 6,041,346; 5,963,017;

U.S. Patent Design D563,594; D557,695; D545,803; D542,256; D538,276; D534,889; D518,041; D510,325; D510,324; D509,194; Patents Pending.

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